Kley Reynolds

Chief Technology Officer • Fractional & Interim CTO • AI-Native Engineering Transformation

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Entrepreneurial CTO and former equity-owning board director with over 25 years turning high-stakes financial, low-latency trading, and national public-transit platforms into resilient, auditable systems. Proven operator across €6M–€12M budgets and 50–120+ person engineering organisations, pairing C-suite stakeholder alignment with governed, spec-driven AI software delivery.

10 Transit Operators	16-Week Fintech Launch	3 → 120 Engineers	€6M–€12M Budgets
Nationwide EMV public-transit ticketing industrialisation	Production prepaid E-Purse with double-entry ledgers & audit trails	Global quant & trading org scaled across 5 countries & 30 DCs	Direct C-suite P&L, vendor decoupling, and clean enterprise IT transfer

SELECTED EXECUTIVE & TRANSFORMATION TRACK RECORD

Founder & Principal CTO — 42TECH B.V. (42 Technology B.V.)

Netherlands / EU

- **Fractional CTO & Spec-Driven Dark Factory:** Advises boards, CEOs, and investors on stalled programmes, M&A technical due diligence, and governed AI-native delivery—shipping enterprise-ready MVPs with 100% client IP handover or remote managed SLA.
- **Cross-Border Mobility IP Licence:** Personally architected a cross-border NL–DE transit platform with a two-developer team; licensed under a €250k perpetual-use enterprise agreement while retaining core IP.
- **National Rail Blueprint Handover:** Demonstrated 25 hybrid-terminal passenger service touchpoints; national rail operator adopted the architecture and transitioned full platform engineering internally.

Chief Technology Officer Mandate — National Public-Transit Platform

6-Year Transformation

- **National EMV Industrialisation:** Restored execution to a stalled EMV acceptance pilot by designing a unified external API decoupling layer across legacy financial systems and microservices—validated on live parallel traffic and rolled out across 10 national transport operators.
- **16-Week Prepaid E-Purse Build:** Following an external partnership collapse, proposed and delivered a production prepaid E-Purse in four months with double-entry ledgers, reconciliation, and regulatory separation.
- **Deterministic Disaster Recovery:** Architected chronological tap/API replay across 7 databases, replaying a full day of national transit volume in 8 hours within 0.25% financial variance for auditors.

Chief Technology Officer & Board Director — All Options

Equity-Owning C-Suite

- **Global Trading & Quant Scale-Up:** Built and led a 120-person international engineering and quantitative organisation from an initial team of 3 across 5 countries and 30 exchange-adjacent data centres, supporting 4x trader growth on mission-critical low-latency infrastructure.

EXECUTIVE MANDATE & GOVERNANCE DOMAINS

Domain	Board & Operational Deliverables
Fractional / Interim CTO	30-day architecture & org triage, ranked risk registers, vendor/API decoupling, €6M–€12M CapEx/OpEx governance, and L2/L3 operational readiness.
Mission-Critical Platforms	High-throughput payments, EMV ticketing, double-entry financial ledgers, deterministic audit replay, and low-latency distributed infrastructure.
AI-Native Transformation	Governed spec-driven AI agent harnesses (OpenAPI contracts, automated SAST, CI/CD test & replay gates) and clean Build-Operate-Transfer to internal IT.